

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/725,650		12/02/2003	Wenguang Ma	ALCN-101US2	4522	
23122	7590	12/16/2005		EXAMINER		
RATNERPRESTIA				VO, HAI		
P O BOX 980 VALLEY FORGE, PA 19482-0980				ART UNIT	PAPER NUMBER	
				1771	1771	
				DATE MAILED: 12/16/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		A It - At a - Na	Applicant(a)				
		Application No.	Applicant(s)				
	Office Andien Commence	10/725,650	MA ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Hai Vo	1771				
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the	correspondence address				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailir ed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)[🛛	Responsive to communication(s) filed on 18 (October 2005					
•—	Responsive to communication(s) filed on <u>18 October 2005</u> . This action is FINAL . 2b) This action is non-final.						
3)	•		osecution as to the merits is				
٥/١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dienositi	ion of Claims						
		lication					
•	Claim(s) 1-4,7 and 8 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
·	Claim(s) is/are allowed.						
· · · · ·	Claim(s) 1-4,7 and 8 is/are rejected.						
7)	☐ Claim(s) is/are objected to. ☐ Claim(s) are subject to restriction and/or election requirement.						
اـــاره	Claim(s) are subject to restriction and	or election requirement.					
Applicati	on Papers						
9)[The specification is objected to by the Examine	er.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correct	ction is required if the drawing(s) is ol	ojected to. See 37 CFR 1.121(d).				
11)	The oath or declaration is objected to by the E	xaminer. Note the attached Office	e Action or form PTO-152.				
Priority ι	under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
	e of References Cited (PTO-892)	4) Interview Summan					
	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08	Paper No(s)/Mail E	pate Patent Application (PTO-152)				
Paper No(s)/Mail Date <u>1018</u> . 6) Other:							

Application/Control Number: 10/725,650 Page 2

Art Unit: 1771

1. All of the art rejections are maintained. Additionally, a new ground of rejection is made in view of provisional obviousness-type double patenting rejection over copending Application No. 10/175,649.

Double Patenting

2. Claims 1-4, 7 and 8 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-9 of copending Application No. 10/725,649. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims of claims 1-9 of copending Application No. 10/725,649 fully encompass the presently claimed subject matter in addition to the limitation of the anisotropic core material.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-3, 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mason et al (US 6,197,233) in view of Grinshpun et al (US 6,844,055) as evidenced by Chen et al (US 6,165,308) substantially as set forth in the 04/14/2005 Office Action.

Application/Control Number: 10/725,650 Page 3

Art Unit: 1771

5. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mason et al (US 6,197,233) in view of Grinshpun et al (US 6,844,055) as evidenced by Chen et al (US 6,165,308) as applied to claim 1, further in view of Tusim et al (US 6,213,540) substantially as set forth in the 04/14/2005 Office Action.

- 6. Claims 1-3, 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Park et al (US 5,527,573) in view of Grinshpun et al (US 6,844,055) as evidenced by Chen et al (US 6,165,308) substantially as set forth in the 04/14/2005 Office Action.
- 7. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Park et al (US 5,527,573) in view of Grinshpun et al (US 6,844,055) as evidenced by Chen et al (US 6,165,308) as applied to claim 1, further in view of Tusim et al (US 6,213,540) substantially as set forth in the 04/14/2005 Office Action.

Response to Arguments

8. The art rejections over Mason in view of Grinshpun and Chen have been maintained for the following reasons. Applicants argue that there is no motivation to combine Mason with Grinshpun because no mention of polyester is made in Mason and Grinshpun mentions that styrene compounds are suitable alternative coumpounds for use in forming the foam strands. The arguments are not found persuasive for patentability. If Mason discloses the use of polyester, the art rejections will be made under the 102 rejections instead. Grinshpun discloses that the foam strands can be made from different polymeric compositions such as the combination of polyester and polystyrene (column 9, lines 60-67, column

Page 4

Application/Control Number: 10/725,650

Art Unit: 1771

10, lines 58-65 and claim 1). The teachings of Grinshpun give those skilled in the art the tools to conclude that the foam strands can be made from different polymeric compositions including the combination of polyester and polystyrene. The use of polyester in combination of polystyrene is possible and acceptable in forming the foam strands and Grinshpun provides necessary details to practice the invention of Mason. That is a motivation to combine the two references.

9. The art rejections over Park, Grinshpun and Chen have been maintained for the following reasons. Applicants argue that none of the cited references teach strands comprising a mixture of polypropylene and polyester. The examiner disagrees. Grinshpun teaches a cellular foam structure comprising a plurality of foam strands made from a mixture of polypropylene and polyester (column 9, lines 60-67, column 10, lines 58-65 and claim 1). The teachings of Grinshpun give those skilled in the art the tools to conclude that the foam strands can be made from different polymeric compositions including the combination of polyester and polypropylene. The use of polyester in combination of polypropylene is possible and acceptable in forming the foam strands and Grinshpun provides necessary details to practice the invention of Park. That is a motivation to combine the two references.

Conclusion

10. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Application/Control Number: 10/725,650

Art Unit: 1771

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai Vo whose telephone number is (571) 272-1485. The examiner can normally be reached on Monday through Friday, from 6:00 to 2:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on (571) 272-1478. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/725,650 Page 6

Art Unit: 1771

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HV

Hai Vo

HAI VO PRIMARY EXAMINER